

ABSTRACT

An optical transmission system is disclosed that has a simple configuration and is capable of searching for and setting port numbers between two optical transmission apparatuses opposite to each other. The optical transmission apparatus on the transmitting side includes a control unit, an optical switch module, and an electrical-optical converter. The control unit includes a table management unit, a test status message receiver, a test message transmitter, a port number correspondence table, and a transmission port controller. The optical transmission apparatus on the receiving side includes a control unit, an optical switch module, and an optical-electrical converter. The control unit includes a table management unit, a test status message transmitter, a test message receiver, a port number correspondence table, and a reception port controller.